VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please add new claims 3-20 as follows:

- - 3. (Newly Added) The device of claim 2, wherein said power failure detection circuit, forwards said over-speed detection signal from said over-speed detection circuit to said motor drive circuit. -
- - 4. (Newly Added) The device of claim 1, further comprising a DC/DC converter in communication with said magnetic bearing drive controller and said inverter controller. -
- -- 5. (Newly Added) The device of claim 4, wherein said DC/DC converter is in communication with said motor drive circuit. --
- -- 6. (Newly Added) The device of claim 5, wherein said DC/DC converter is in communication with said regenerative circuit. --
- -- 7. (Newly Added) The device of claim 4, further comprising a rectifier in communication with an AC power supply and said DC/DC converter. --
- -- 8. (Newly Added) The device of claim 7, wherein said over-speed detection circuit provides said over-speed signal to said inverter which provides an instruction signal to said motor drive circuit to operate said switch portion. --

-- 9. (Newly Added) A power supply for a magnetic bearing controller, comprising:
a regenerative circuit for providing power from a motor to said magnetic bearing
controller;

an over-speed detector that generates an over-speed signal when the speed of said motor is greater than or equal to a predetermined speed; and

a switch that switches said motor from an inverter in a motor controller to said regenerative circuit in response to said over-speed signal. - -

- -- 10. (Newly Added) The power supply of claim 9, further comprising a power failure detector that detects a power failure and outputs a power failure signal, wherein said switch further switches said motor from said inverter in said motor controller to said regenerative circuit in response to said power failure signal. --
- -- 11. (Newly Added) The power supply of claim 10, wherein said power failure detector is connected between said over-speed detector and said motor controller. --
- -- 12. (Newly Added) A magnetic bearing controller comprising:
 a magnetic bearing drive controller which drives a magnetic bearing in a motor;
 a motor drive circuit including:

an inverter that drives said motor;

a regenerative circuit that provides regenerative power from said motor to said magnetic bearing drive controller; and

a switch that switches said motor between said inverter and said regenerative circuit; and

an over-speed detector that generates a switch signal if the speed of said motor is greater than or equal to a predetermined speed,

wherein said switch switches said motor from said inverter to said regenerative circuit in response to said switch signal. - -

- -- 13. (Newly Added) The controller of claim 12, further comprising a power failure detector that generates a second switch signal, wherein said switch switches said motor from said inverter to said regenerative circuit in response to said second switch signal. -
- -- 14. (Newly Added) The controller of claim 13, wherein said power failure detector is connected between said over-speed detector and said motor drive circuit. --
- - 15. (Newly Added) The controller of claim 14, wherein said power failure detector forwards said first switch signal from said over-speed detector to said motor drive circuit. -
- -- 16. (Newly Added) The controller of claim 14, wherein said power failure detector forwards said second switch signal from said over-speed detector to said motor drive circuit.
- -- 17. (Newly Added) The controller of claim 12, further comprising: an inverter controller that controls said inverter; and

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a DC/DC converter in communication with said magnetic bearing drive controller and said inverter controller. - -

- - 18. (Newly Added) The controller of claim 17, wherein said DC/DC converter is in communication with said motor drive circuit. -
- - 19. (Newly Added) The controller of claim 18, wherein said DC/DC converter is in communication with said regenerative circuit. -
- - 20. (Newly Added) The controller of claim 17, further comprising a rectifier in communication with an AC power supply and said DC/DC converter. -